

Message Text

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UNCLAS LAGOS 08688

E.O. 11652: N/A

TAGS: BEXP, NI

SUBJECT: TENDER FOR THE SUPPLY OF ELECTRICAL WIRE AND CABLE

REF: LAGOS 8642

1. THE NIGERIAN ELECTRIC POWER AUTHORITY (NEPA) INVITES TENDERS
FOR THE SUPPLY, C.I.F. NIGERIAN PORTS, OF THE FOLLOWING:

(A) PVC INSULATED AND SHEATHED STRANDED SINGLE CORE
ALUMINUM CABLES THREE QUARTER HARD DRAWN, COLORED
GREY, OF THE FOLLOWING LENGTHS AND SIZES:
(1) 1,500,000 METRES 7/1.04MM 6 SQUARE MM

(2) 2,250,000 METRES 7/1.70MM 16 SQUARE MM

(3) 500,000 METRES 19/1.53MM 35 SQUARE MM

(B) PVC INSULATED AND SHEATHED STRANDED SINGLE CORE ALUMINUM
CABLES HARD DRAWN, COLORED RED, OF THE FOLLOWING LENGTHS
AND SIZES:

(1) 4,000,000 METRES 7/1.04MM 6 SQUARE MM

(2) 6,000,000 METRES 7/1.70MM 16 SQUARE MM

(3) 1,000,000 METRES 19/1.53MM 35 SQUARE MM

2. BID DOCUMENTS REVIEWED BY EMBOFF CONTAIN FOLLOWING
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SPECIFICATIONS:

- (1) GENERAL DESCRIPTION: SINGLE CORE UNARMoured CABLES FOR INSTALLATION IN 50 CYCLES PER SECOND SYSTEM WITH NOMINAL SYSTEM VOLTAGE OF 400 VOLTS BETWEEN PHASES AND 230 VOLTS BETWEEN PHASE AND NEUTRAL CONDUCTORS, NEUTRAL POINT OF SYSTEM SOLIDLY EARTHED. INTENDED FOR CONNECTION OF CONSUMER SERVICE CUT OUTS TO LOW VOLTAGE OVERHEAD DISTRIBUTION MAINS.
- (2) DESIGN VOLTAGE: CABLE SHALL BE DESIGNED FOR SYSTEM VOLTAGE OF 1,000 VOLTS BETWEEN PHASES AND 600 VOLTS BETWEEN PHASE AND NEUTRAL CONDUCTORS.
- (3) CURRENT RATING: MAXIMUM OPERATING CONDUCTOR TEMPERATURE AT RATED CURRENT IS 85 DEGREES CENTRIGRADE: THERMAL RESISTIVITY OF PVC SHALL BE 700 DEGREES CENTRIGRADE CM/W: AMBIENT AIR TEMPERATURE 35 DEGREES CENTRIGRADE: VALUES CITED BY BIDDER IN DOCUMENTS SHALL BE FOR MAXIMUM CONTINUOUS CURRENT RATING WITH NO DE-RATING FOR OVERLOAD PROTECTION.
- (4) CONDUCTORS: STRANDED ALUMINUM IN ACCORDANCE WITH BRITISH STANDARD 6791, MADE FROM WIRE G.1.E IN HARD OR THREE QUARTER HARD DRAWN CONDITION AS SPECIFIED IN B.S. 2627. CONDUCTOR SHALL BE CIRCULAR, HAVE STANDARD CROSS SECTION AREAS AND STRANDING.
- (5) INSULATION AND SHEATHING: PVC IN ACCORDANCE WITH B.S. 6746, APPLIED TO CONDUCTORS BY EXTRUSION. INSULATION SHALL BE TYPE 1, SHEATHING TYPE 5 AS IN B.S. 6746 SCHEDULE A. THE THREE QUARTER HARD DRAWN (H 6) CONDUCTOR SHALL HAVE RED INSULATION AND GREY SHEATHING: THE HARD DRAWN (H 9) CONDUCTOR SHALL HAVE RED INSULATION AND RED SHEATHING. THE PVC USED MUST GIVE PROTECTION AGAINST TERMITE ATTACK BY INCLUSION OF SUITABLE COMPOUNDS WHICH ARE NON-TOXIC TO HUMANS. THE THICKNESS OF THE INSULATION IS TO BE DETERMINED AS IN CLAUSE 6 OF B.S. 6004. THE SMALLEST MEASURED VALUE WILL NOT FALL BELOW THE TABULATED VALUE BY MORE THAN FIVE PERCENT PLUS 0.1 MM. THE THICKNESS OF THE PVC SHEATH IS TO BE DETERMINED AS IN CLAUSE 7 OF B.S. 6004. THE SMALLEST MEASURED VALUE SHALL NOT BE BELOW THE TABULATED VALUE BY MORE THAN FIFTEEN PERCENT PLUS 0.1 MM.
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- (6) IDENTIFICATION OF MANUFACTURER: PVC SHEATH SHALL BE EMBOSSED WITH MANUFACTURER'S NAME AND THE INSCRIPTION QTE ELECTRIC CABLE 600/1,000 VOLTS NEPA UNQTE. HEIGHT OF EMBOSHING NOT TO EXCEED 0.2 MM, UPRIGHT BLOCK CHARACTERS IN STRAIGHT LINE. SPACE BETWEEN ONE SET OF CHARACTERS AND NEXT NOT TO EXCEED 460 MM.
- (7) OVERALL DIMENSIONS: CABLE SUBJECT TO FO

LOWING TOLERANCES:

NEGATIVE 0.4MM: POSITIVE 0.7MM.

(8) RESISTANCE: DIRECT CURRENT RESISTANCE OF EACH CABLE SHALL NOT EXCEED THE VALUES CITED IN SCHEDULE A BELOW MEASURED AT ROOM TEMPERATURE AND CORRECTED TO 20 DEGREES CONTIGRADE.

(9) LENGTH: ALL CABLE IN COIL LENGTHS OF 100 METERS.

(10) TESTING: ALL TESTS TO MEET BRITISH STANDARDS. CONDUCTORS TO BE TESTED ACCORDING TO B.S. 6791 AND 6004, PCV INSULATION AND SHEATHING TO B.S. 6746 EXCEPT THAT COLD BAND TEST MAY BE OMITTED. (NOTE: IEC STANDARD IS ACCEPTABLE WHEREVER BRITISH STANDARD IS MENTIONED.)

(11) SCHEDULE A - SPECIFICATION REQUIREMENTS PD/SPEC/14/A/1271:

NOMINAL CROSS STRANDING RADIAL RADIAL OVERALL MAXIMUM
SECTION AREA AND WIRE THICKNESS THICKNESS CABLE RESISTANCE
OF CONDUCTOR DIAMETER OF INSULA- OF SHEATH DIAMETER PER KM AT
IN SQUARE MM IN MM TION IN MM IN MM IN MM 20 C, IN O
HMS

6	7/1.04	0.8	0.9	6.8	4.99
16	7/1.70	1.0	1.0	9.4	1.87
35	19/1.53	1.2	1.1	12.6	0.85

3. THREE SETS OF TENDER DOCUMENTS CAN BE OBTAINED FROM THE DIRECTOR, PURCHASING DEPARTMENT, NIGERIAN ELECTRIC POWER AUTHORITY, P.M.B. 12030, 24/25 MARINA, LAGOS, UPON PAYMENT OF A NON-REFUNDABLE DEPOSIT OF 100 NAIRA (163 DOLLARS) TO THE NEPA CASHIER. BID DEADLINE IS UNCLASSIFIED

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AUGUST 19, 1976 AT 12 NOON.
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